

V&V Reference Report

L2 ASCDS Version : 10.8

Observation 21448 - L2 Version 2
Chandra X-Ray Center

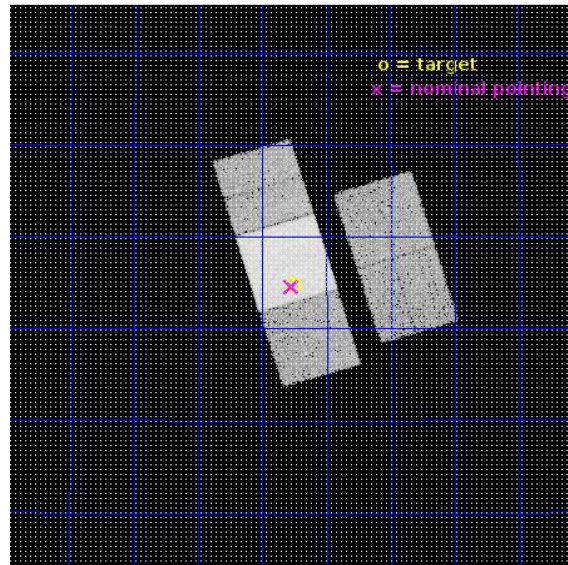
L2 Processing Date : Aug 7 2019

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1 Front

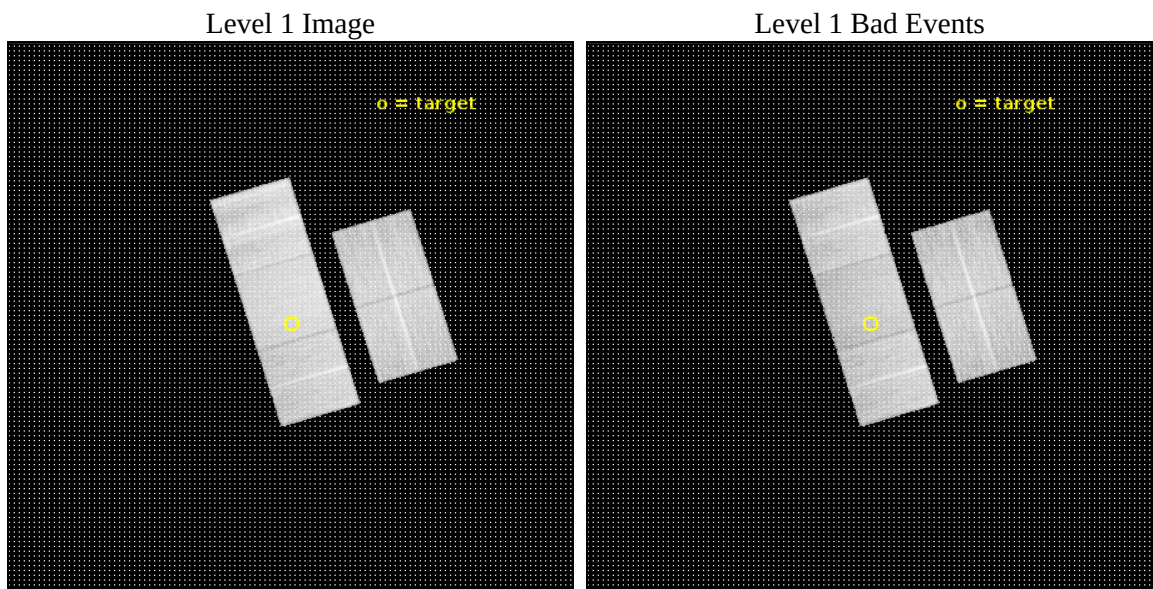
seq_num	703745	Sequence number
obs_id	21448	Observation id
title	Testing Mid-Infrared AGN Selection in Dwarf Galaxies with Chandra and HST	Proposal title
observer	Amy Reines	Principal investigator
object	J133245.62+263449.3	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	203.19	Observer's specified target RA [deg]
dec_targ	26.580389	Observer's specified target Dec [deg]
ra_nom	203.19343087729	Nominal RA [deg]
dec_nom	26.576252527494	Nominal Dec [deg]
roll_nom	253.15510934837	Nominal Roll [deg]
revision	2	Processing version of data
ontime	22056.500169754	Sum of GTIs [s]
livetime	21768.315757277	Livetime [s]
ontime2	22056.500169754	Sum of GTIs [s]
ontime3	22056.500169754	Sum of GTIs [s]
ontime6	22053.359229326	Sum of GTIs [s]
ontime7	22056.500169754	Sum of GTIs [s]
ontime8	22056.500169754	Sum of GTIs [s]
l2events	161396	Number of level 2 events



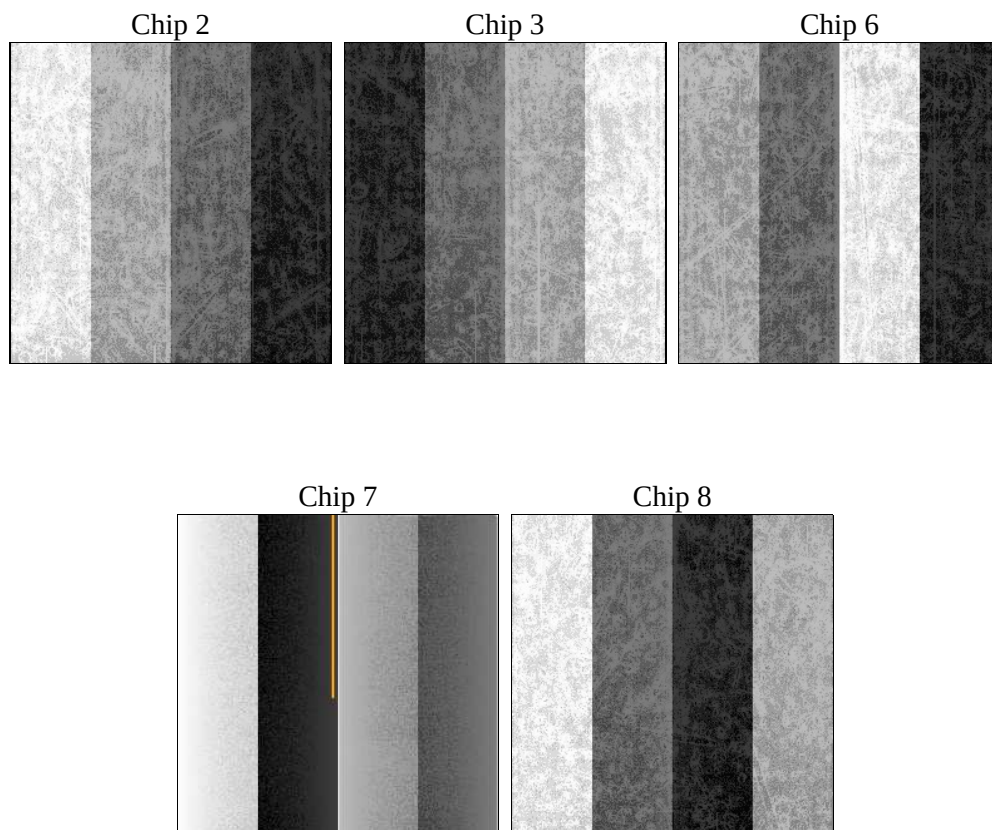
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	22000.000000	[s] Scheduled observation exposure time
ascdsver	10.8	Processing system revision	ontime	22056.500169754	Sum of GTIs [s]
caldsver	4.8.3.1	 	ontime2	22056.500169754	Sum of GTIs [s]
date	2019-08-07T16:24:02	Date and time of file creation	ontime3	22056.500169754	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	22053.359229326	Sum of GTIs [s]
			ontime7	22056.500169754	Sum of GTIs [s]
			ontime8	22056.500169754	Sum of GTIs [s]
			l1events	947867	Number of level 1 events

2.1.4 Events

	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	165066	162298	172127	220836	227540
rejected events	146637	144169	152560	125168	163316
rejected %	88%	88%	88%	56%	71%

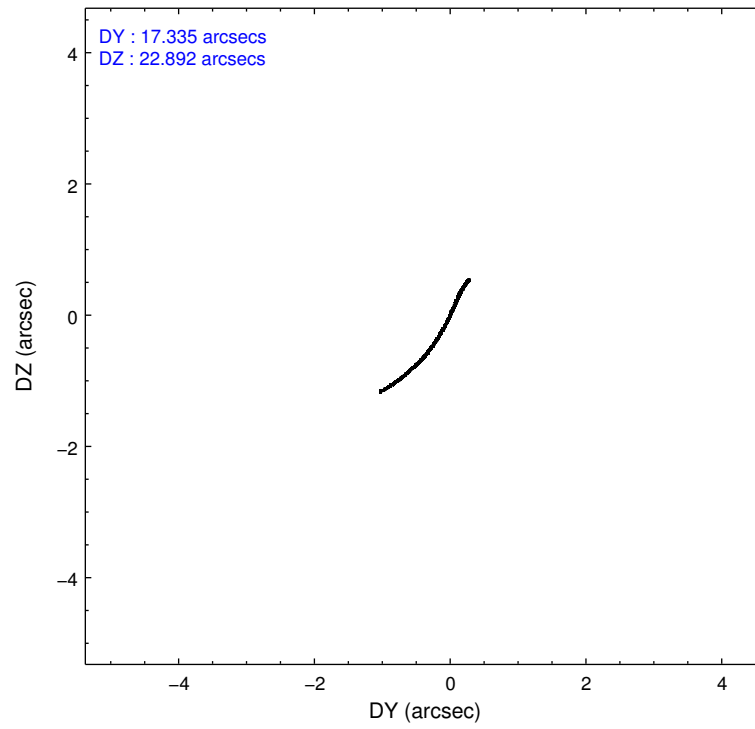
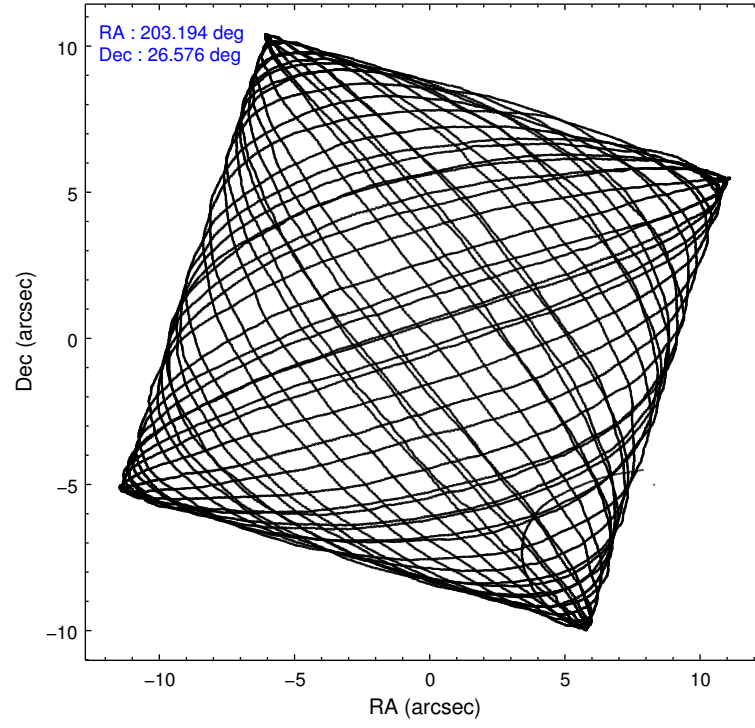
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	6584	6597	6437	8141	18722
	3%	4%	3%	3%	8%
grade 1 events	94	95	90	341	200
	0%	0%	0%	0%	0%
grade 2 events	4640	4097	4667	20934	15427
	2%	2%	2%	9%	6%
grade 3 events	1823	1801	1899	7404	6436
	1%	1%	1%	3%	2%
grade 4 events	1813	1892	1926	7401	6127
	1%	1%	1%	3%	2%
grade 5 events	6577	8016	8155	22145	12460
	3%	4%	4%	10%	5%
grade 6 events	3589	3750	4646	51820	17562
	2%	2%	2%	23%	7%
grade 7 events	139946	136050	144307	102650	150606
	84%	83%	83%	46%	66%

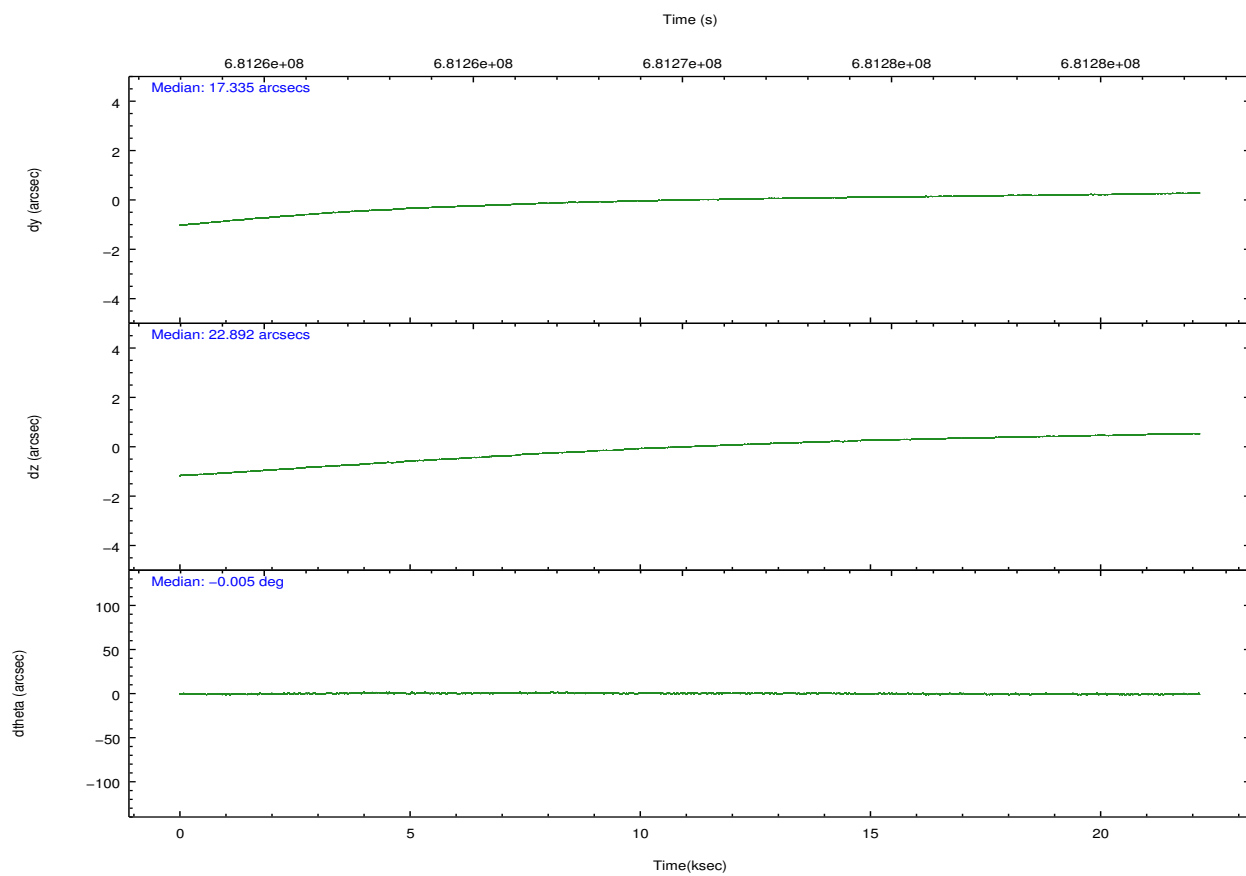
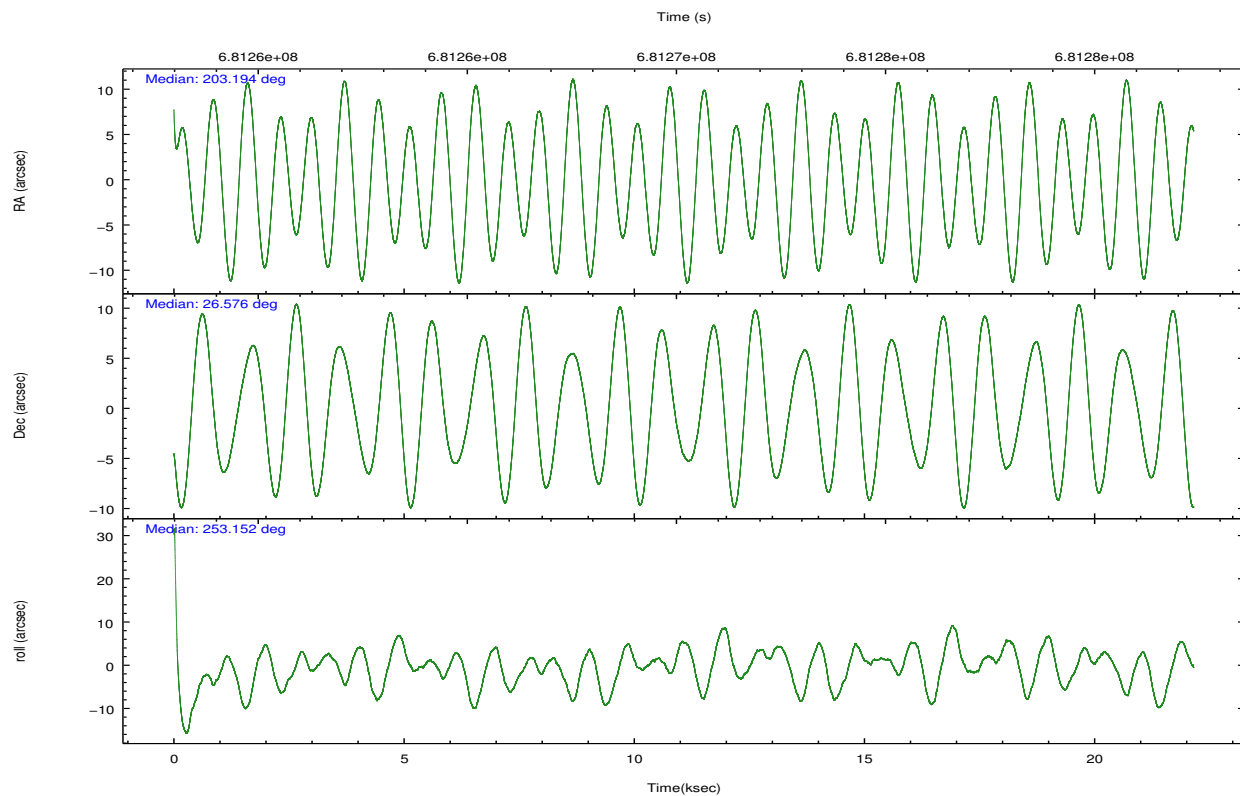
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-23678	ACIS-23678
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	203.186033	203.1934308772896
[deg] Pointing Dec	26.602911	26.5762525274945
[deg] Pointing Roll	253.001777	253.155109348375
[mm] SIM focus pos	-0.684267	-0.6828225247311905
[mm] SIM defocus	0	0.001444936568705701
[mm] SIM translation stage pos	-190.132523	-190.1425803651734
[mm] SIM translation stage offset	0	0.01005778216563158
[s] Observation start time (MET)	681259260.184000	681258306.8616199
Observation start date	2019-08-03T22:39:51	2019-08-03T22:25:06
[s] Observation end time (MET)	681281260.184000	681282312.36306
Observation end date	2019-08-04T04:46:31	2019-08-04T05:05:12
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
CCD I0 on	N	N
CCD I1 on	N	N
CCD I2 on	Y	Y
CCD I3 on	Y	Y
CCD S0 on	N	N
CCD S1 on	N	N
CCD S2 on	Y	Y
CCD S3 on	Y	Y
CCD S4 on	O1	Y
CCD S5 on	N	N
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	3.1

2.3 Aspect



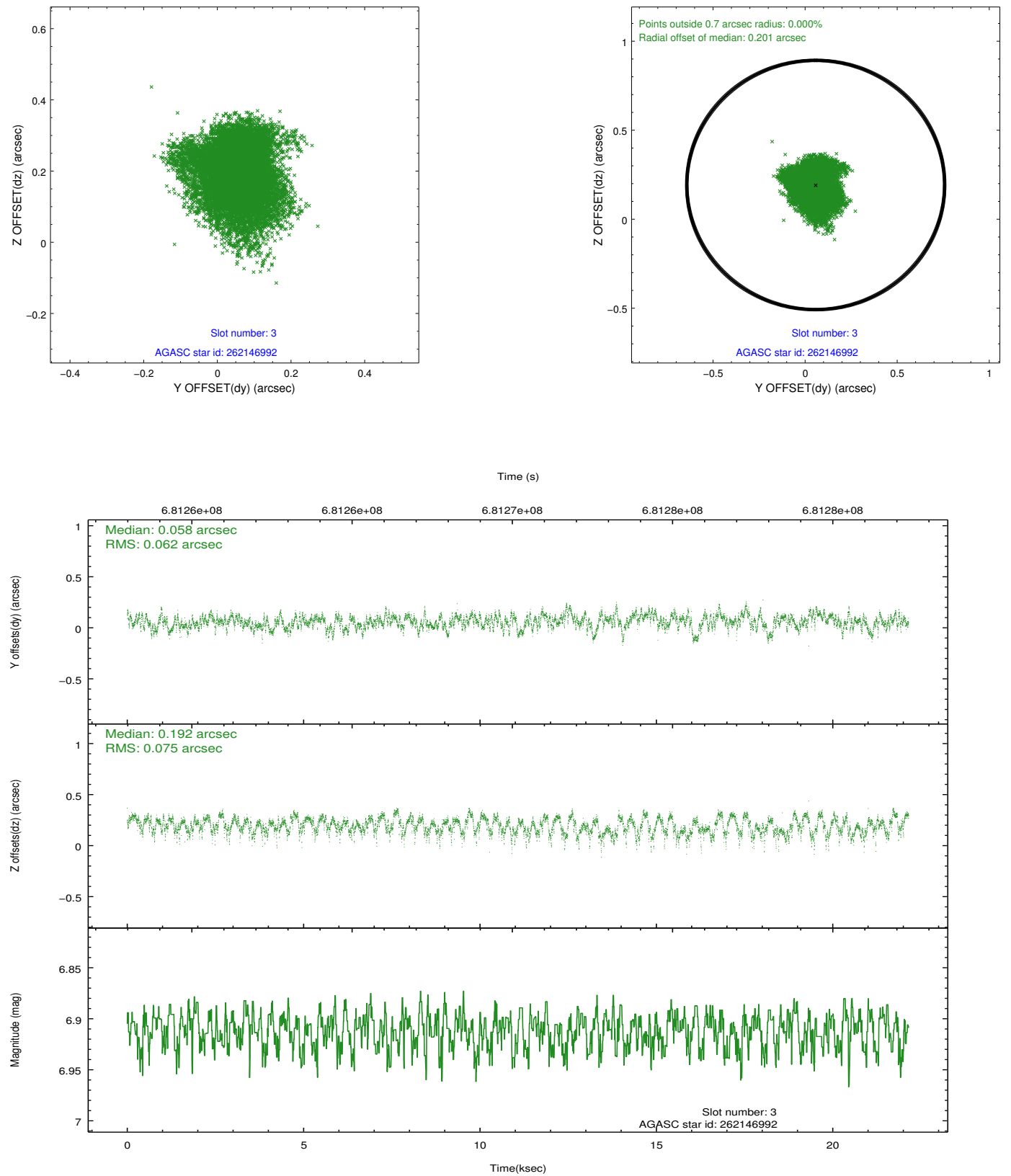


Slot Statistics

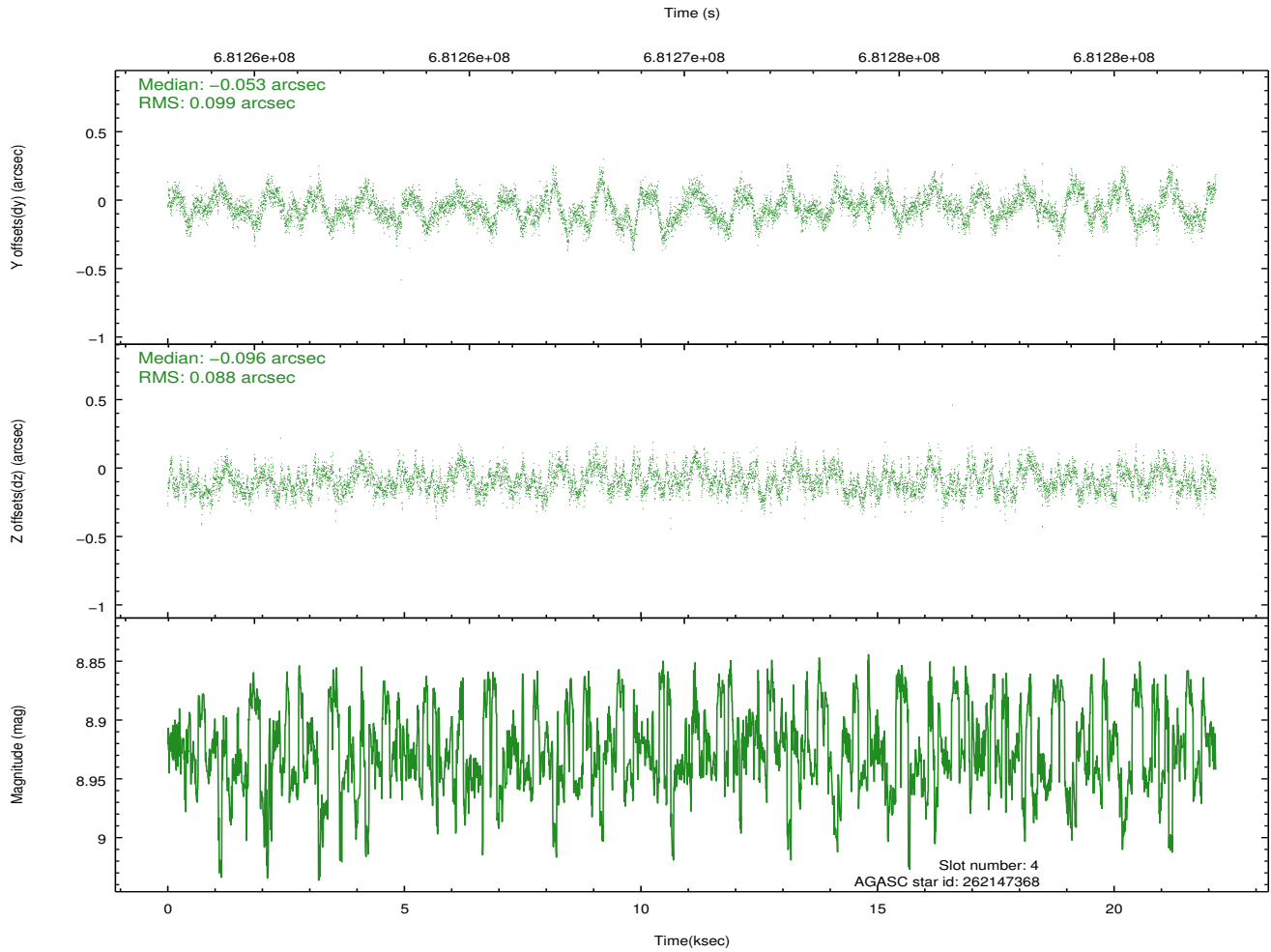
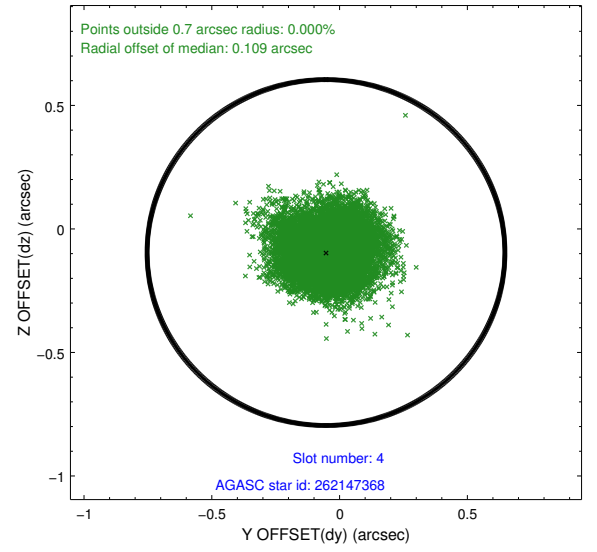
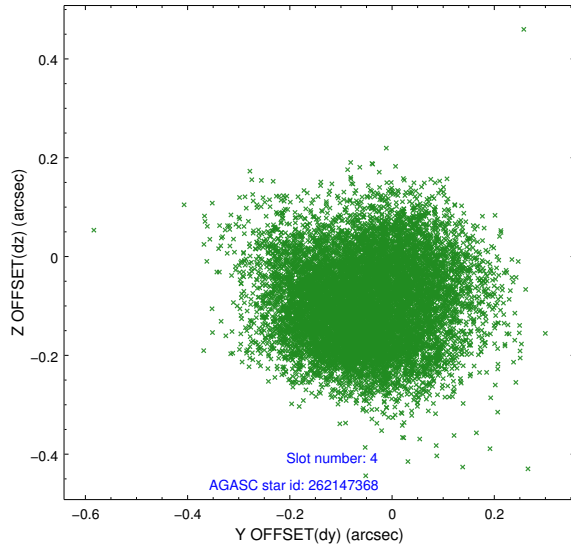
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.01	5402	1.000	-0.275	-0.258	0.014	0.026	0.000000	0.000000	-770.49	-1744
1	FID		ACIS-S-4	7.12	5403	1.000	0.712	0.202	0.009	0.021	0.000000	0.000000	2143.66	164
2	FID		ACIS-S-5	7.08	5403	1.000	-0.467	0.066	0.011	0.021	0.000000	0.000000	-1823.37	157
3	GUIDE	used	262146992	6.91	10806	1.000	0.058	0.192	0.105	0.165	202.956301	26.600966	222.63	-706
4	GUIDE	used	262147368	8.93	10800	1.000	-0.053	-0.096	0.141	0.225	203.241934	26.371345	743.84	414
5	GUIDE	used	262148664	7.67	10804	1.000	0.201	0.204	0.095	0.162	202.753747	26.390210	1137.54	-1109
6	GUIDE	used	262152544	8.06	10799	1.000	-0.099	-0.321	0.127	0.194	203.285109	25.880017	2394.63	1067
7	GUIDE	used	262279472	9.62	10754	1.000	-0.102	0.019	0.209	0.372	203.881624	26.716755	-1051.91	2017

2.4 Star Slots

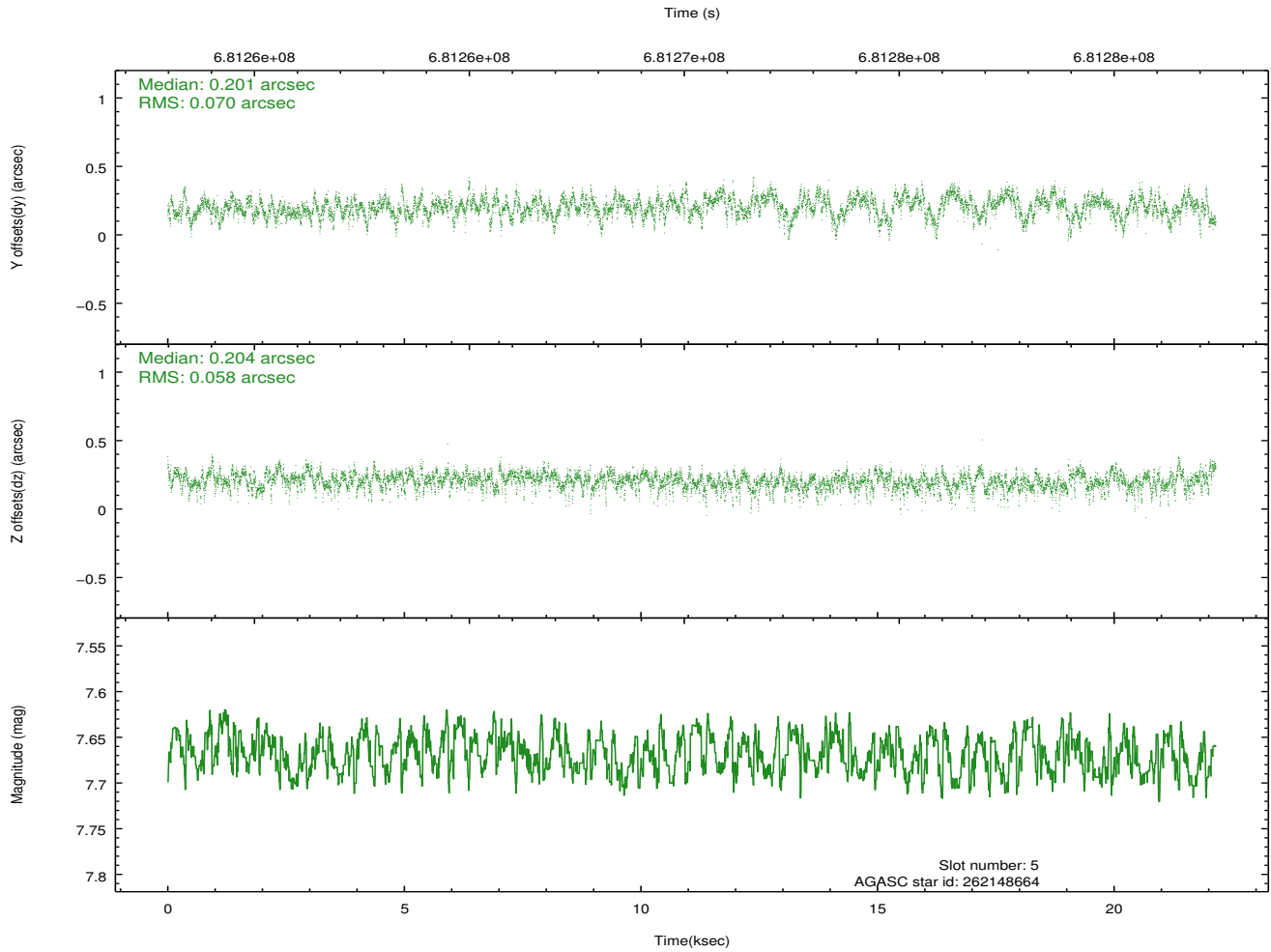
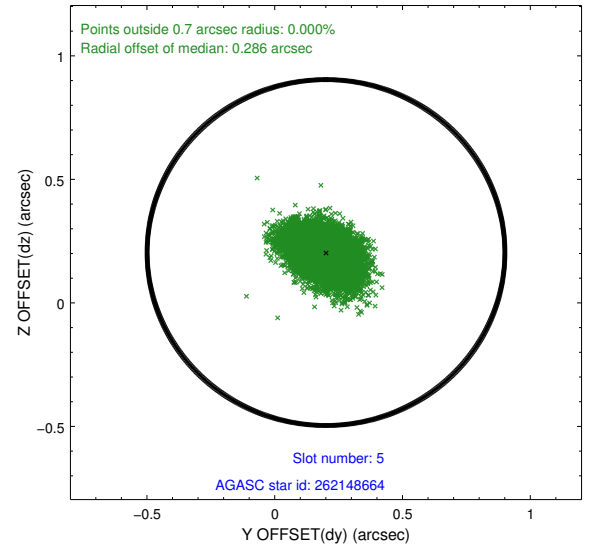
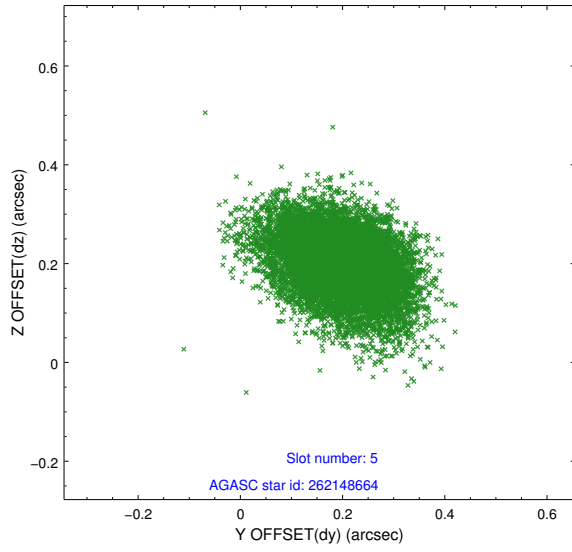
2.4.1 Slot 3



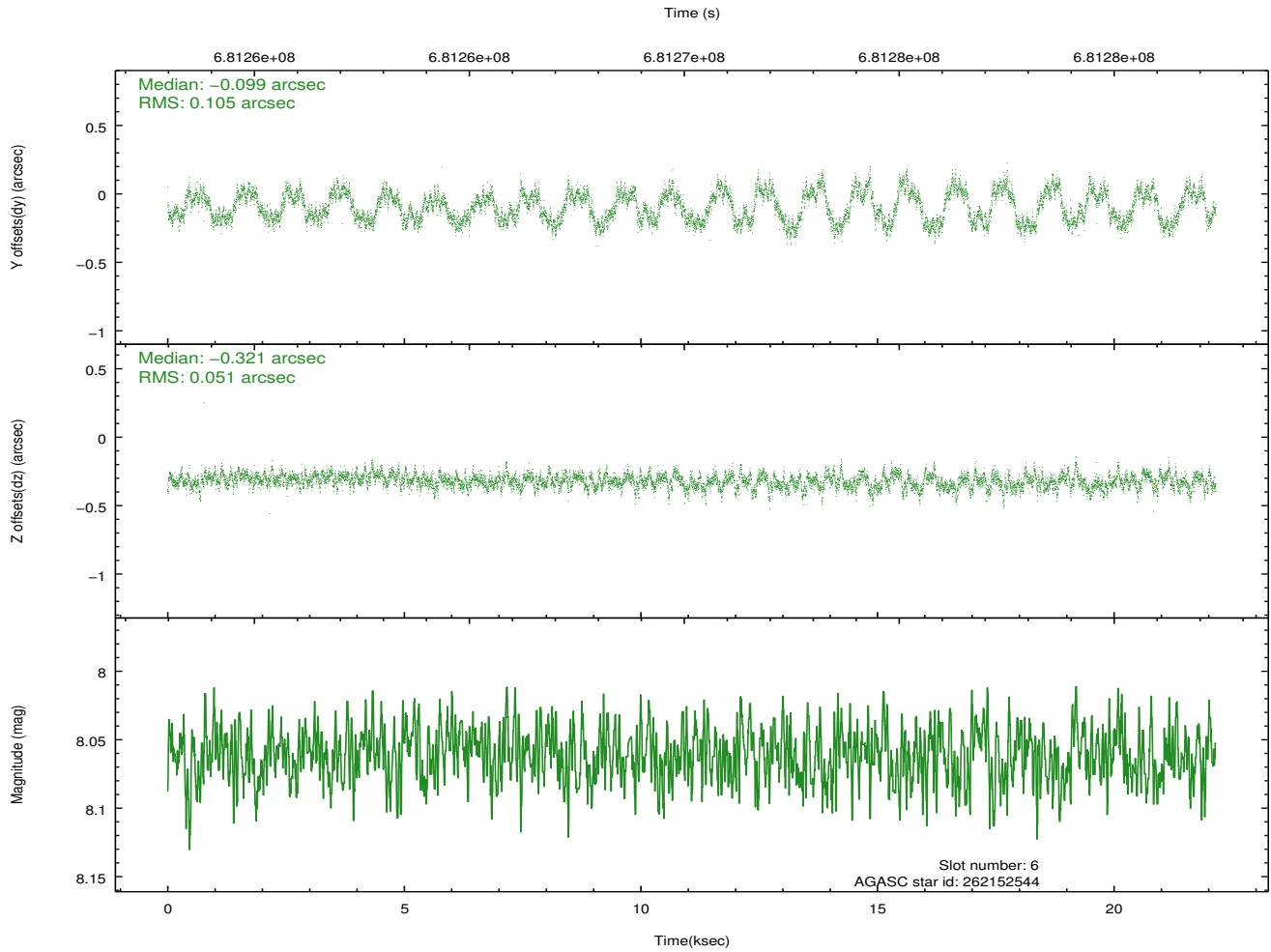
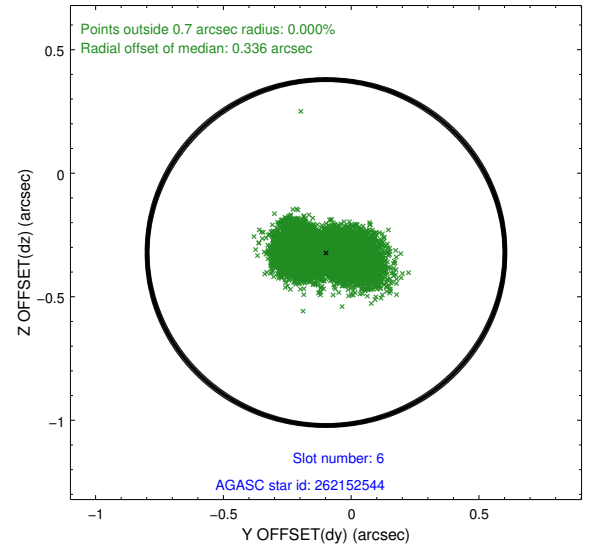
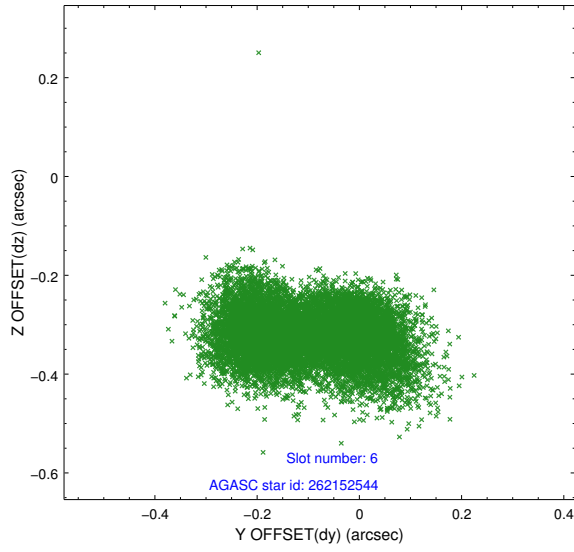
2.4.2 Slot 4



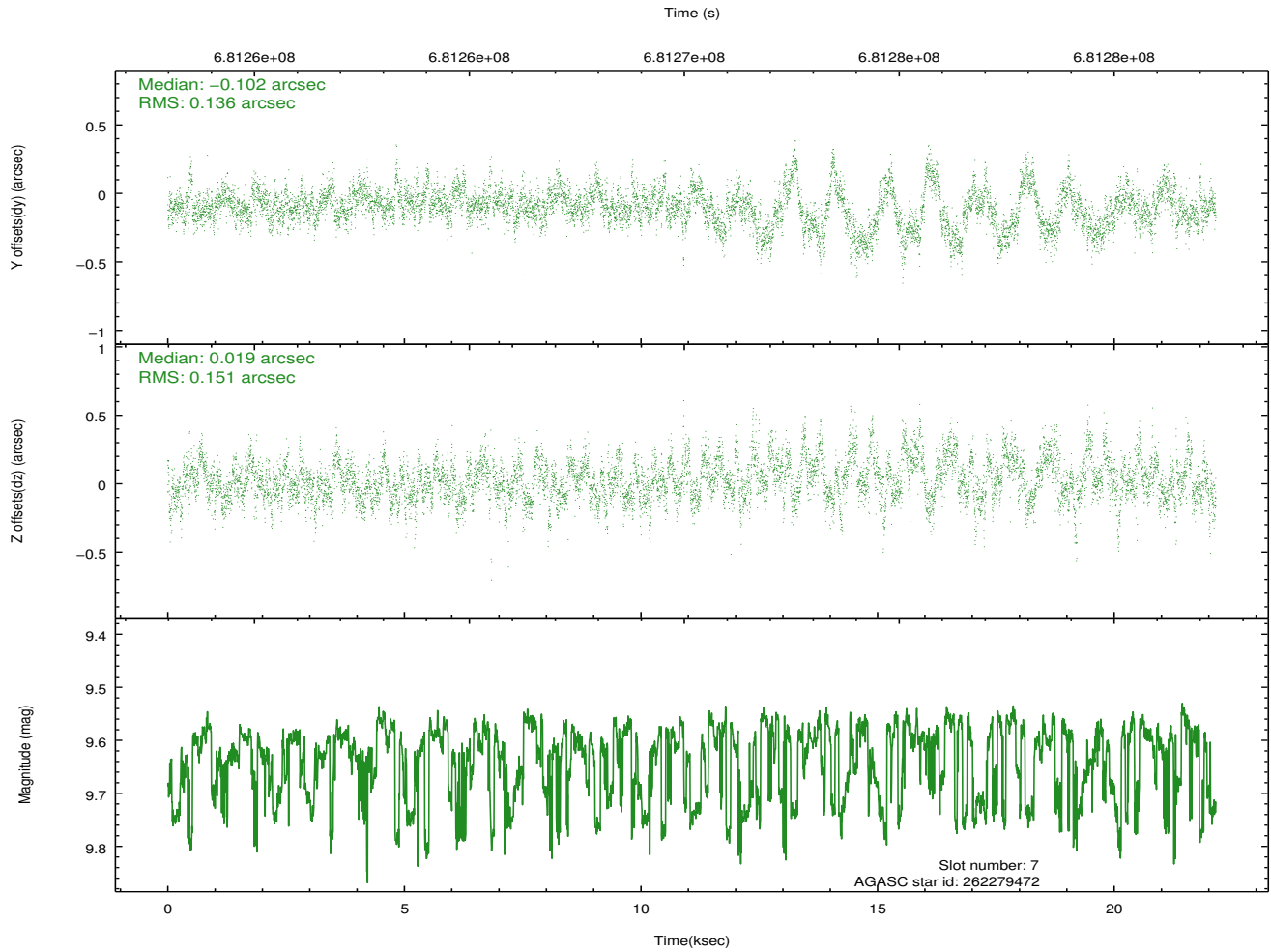
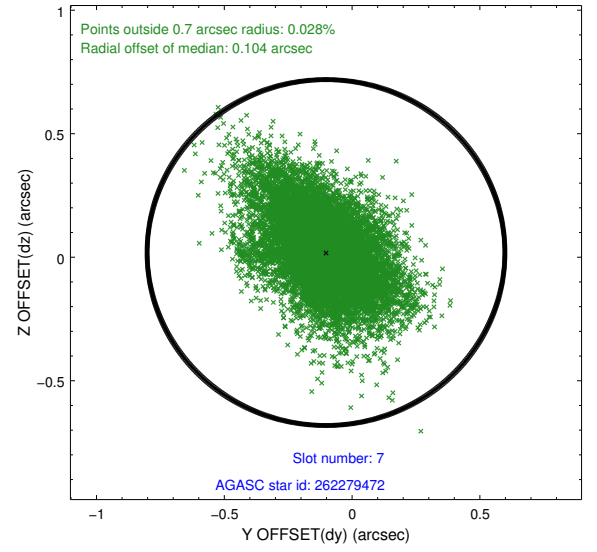
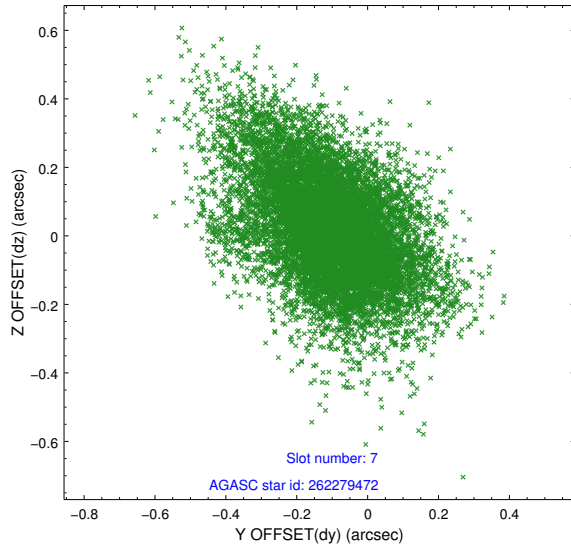
2.4.3 Slot 5



2.4.4 Slot 6

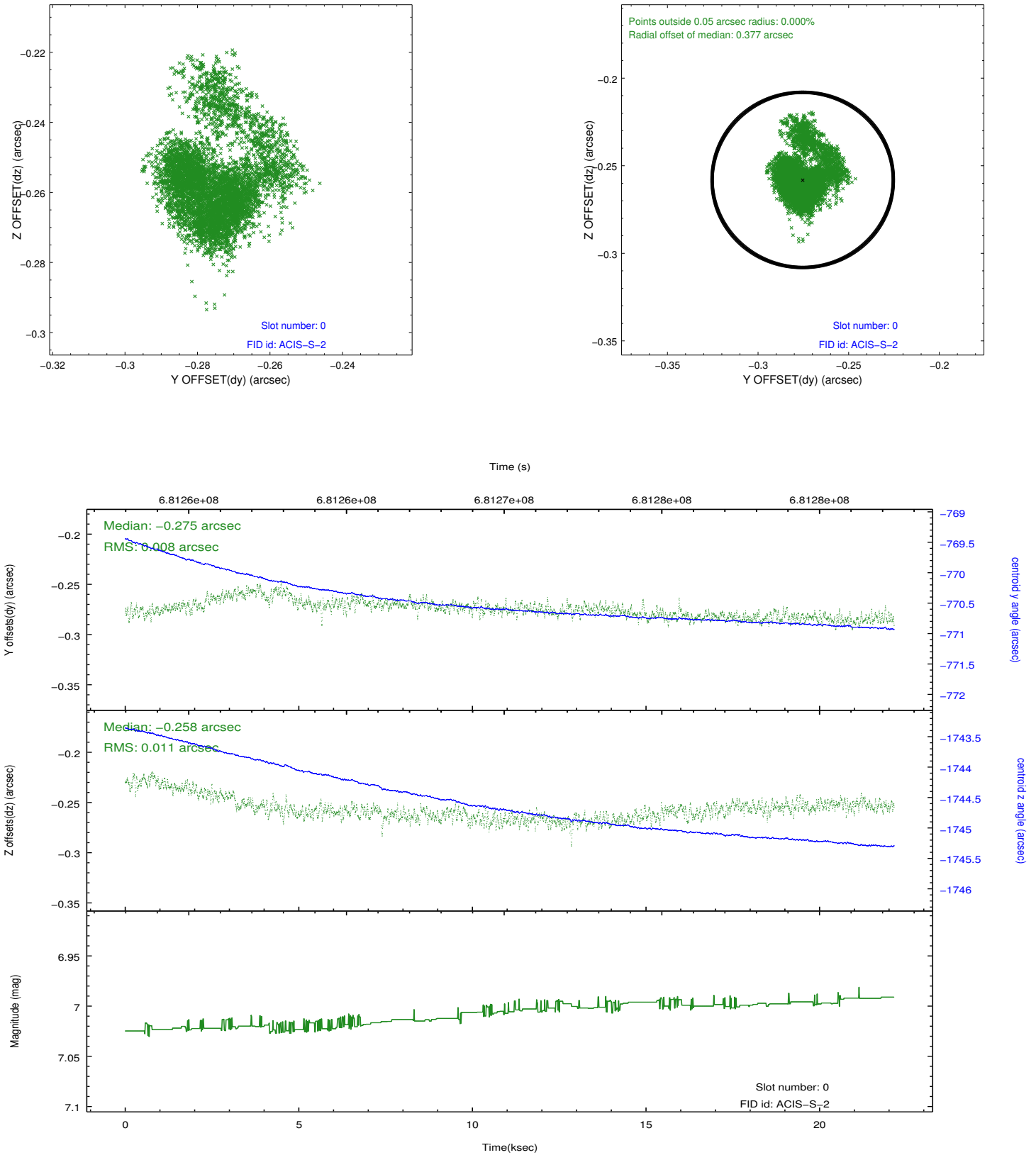


2.4.5 Slot 7

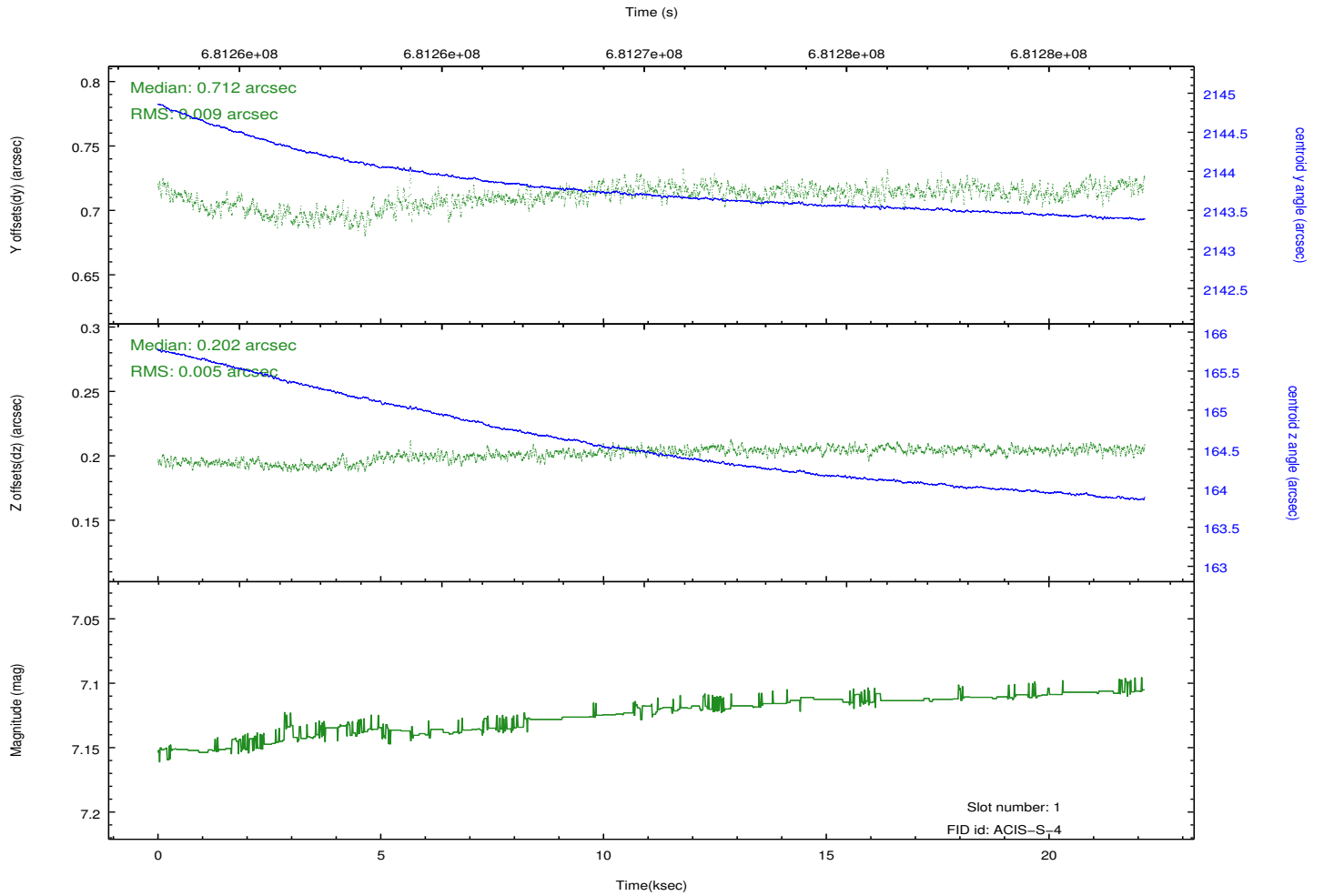
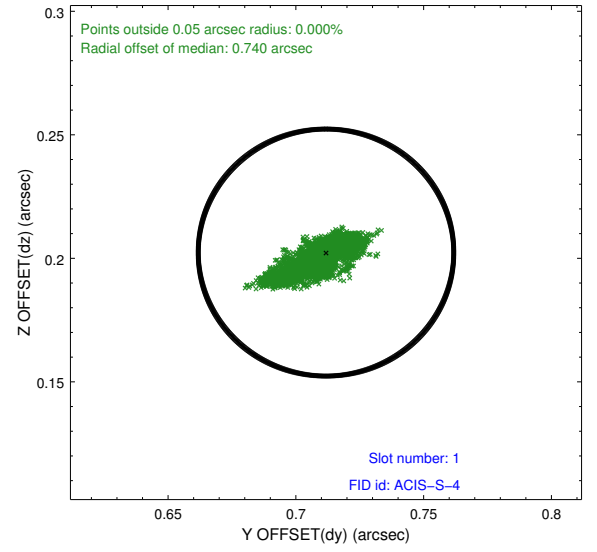
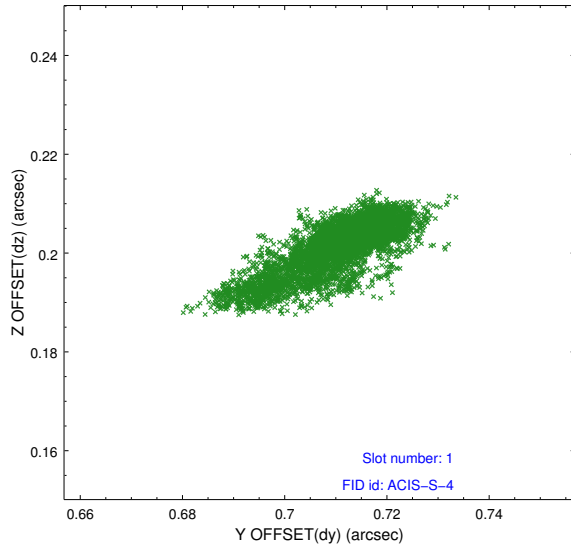


2.5 FID Slots

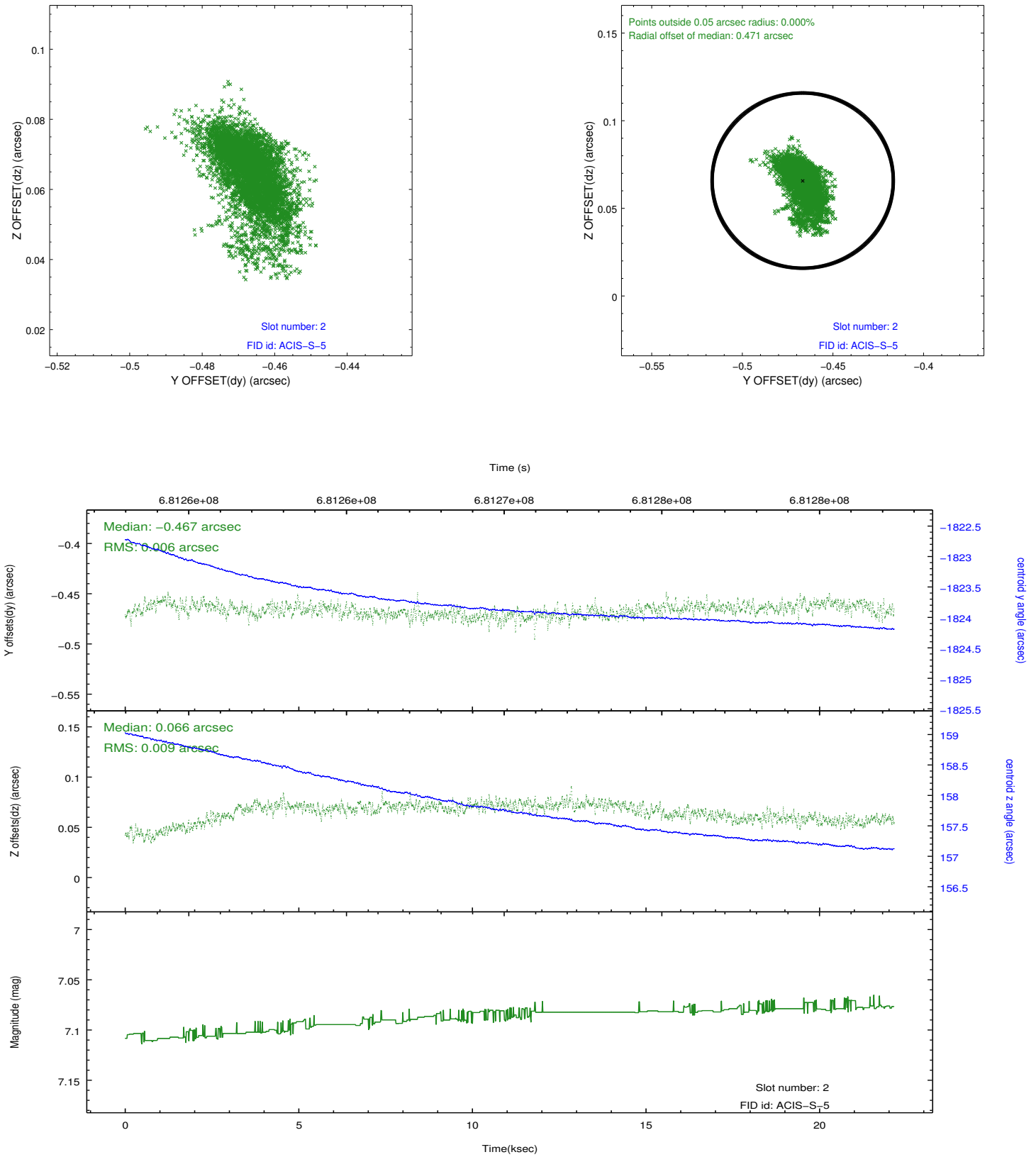
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2019.08.07
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	22.056500169754

A.2 Comments

Joint proposal with HST.

The original bias map for CCD = 3 contained a few rows of noisy telemetry. In this processing, the file has been reconstructed using scaled data from a comparable bias map. The affected pixels are bounded by sky coords: (203.08141,26.65854), (202.93210,26.69907), (202.93140,26.69698), (203.08070,26.65645).